

BUZUNOV, V.; SAKHAN', V. (Stavropol'skiy kary); RATNIKOV, M. (Perm');  
MARTYNOV, L. (Rostov-na-Donu); DYBASOV, G., (Chelyabinskaya obl.);  
SOKOLOV, R. (Novorossiysk)

Everyday routine of volunteer firemen. Pozh.delo 9 no.3:6 Mr '63.  
(MIRA 16:4)

1. Zamestitel' nachal'nika Otdela pozharной okhrany Buryatskoy ASSR  
(for Buzunov).

(Fire extinction)

DYBAN, Ya.P., KEIER, E.E.

Effect of technological factors on the structure and composition  
of semiacid materials obtained. Izv. Vuzov SSSR no. 34, 1977, 165.  
(1978, 1978)

1. Institut fiziko-khimicheskikh osnov pererabotki metallogra-  
fiy, Novosibirsk.

3-13

COUNTRY : Poland  
 CATEGORY :  
 ABS. JOUR. : RZKham., No. 23 1959, No. 81586  
 AUTHOR : Blaszkowska, Zofia; Dybczynski, Rajmund  
 INST. : Not given.  
 TITLE : Characteristics and Evaluation of Strongly Alkaline Anionites. I. Methods of Evaluation of Ion Exchange Capacity.  
 ORIG. PUB. : Przem. chem. 1959, 38, #3, 168-175.  
 ABSTRACT : Four methods for the determination of ion exchange capacity of strongly alkaline anionites (An) were described. Two of them utilized column titration, and were based on the determination, upon filtration from 1 N, of the quantities of anions, desorbed from the layer of An, obtained from the reactions  $AnCl + NaOH \rightarrow AnOH + Na_2CO_3 + H_2O$ . The remaining two methods were based on the potentiometric titration of OH-form with the An solution of HCl and Cl-form with a solution of

CARD: 1/2

34

COUNTRY : Poland B-13  
CATEGORY :  
ABS. JOUR. : RZKhim., No. 23 1959, No. 81586  
AUTHOR :  
INDY. :  
TITLE :

ORIG. PUB. :

ABSTRACT :  $AgNO_3$ . The above methods were used to study the polyfunctionality of An. It was observed that weak alkali group content in "Amberlite IRA-400" and in "Levatite MF" did not exceed 5-10%. "Levatite MF" and "Vofatite L-160" contained more than 70% of such groups.

-- G. Yalkin

CARD: 2/2

MINGZEWSKI, Jerzy; DYBCZYNSKI, Rajmund

Anion exchange behavior of the rare-earth complexes with ethylene-  
diaminetetraacetic acid. Chem anal 6 no.2:275-277 '61.  
(EEAI 10:9)

1. Department of Analytical Chemistry, Institute of Nuclear Research,  
Polish Academy of Sciences.

(Ethylenedinitrilotetraacetic acid) (Anion exchange)

MINCZEWSKI, Jerzy; DYBCZYNSKI, Rajmund

Application of the normal distribution to the quantitative evaluation of elution curves. Separation of lanthanide complexes of ethylenediaminetetraacetic acid on anion exchange resins. Chem anal 6 no.5: 725-739 '61.

1. Department of Analytical Chemistry, Institute of Nuclear Research, Polish Academy of Sciences, Warsaw.

DYBCZYNSKI, Rajmund

Thermodynamics of anion exchange of rare earth ethylenediamine-tetraacetates. Roczniki chemii 37 no. 11:1411-1424 '63.

1. Research Institution for Analytical Chemistry, Institute of Nuclear Research, Warsaw.

DYBCZYNSKI, Raymond

POLAND

MINCZEWSKI, Jerzy, prof. dr.; DYBCZYNSKI, Raymond, dr.

Department of Analytical Chemistry, Institute of Nuclear Research  
(Zakład Chemii Analitycznej Instytut Badan Jadrowych), Warsaw -  
(for both).

Warsaw, Chemia analityczna, No 6, November-December 1965, pp 1119-1122.

"Determination of rare earths by neutron activation method with the  
aid of ion-exchange chromatography. Analysis of spectrally pure erbium  
oxide."

DYBCE/OSKI R.

Characteristics and evaluation of strongly basic anion ex-  
changers. II. Evaluation of thermal resistance. (Raj-

mund, Dybczynski. *Przemysl Chem.*, 38, 210-20(1959)

(English and Russian summaries); cf. C.A. 53, 18601f.

The following anion exchangers were examd.: Amberlit

IRA-400 (I), Lewatit MN (II), and M II (III), and Wofatit

L 160 (IV), and their values measured potentiometrically.

Thus, 2000 g. of the ion exchanger was converted into the

[OH<sup>-</sup>] form by means of NaOH (N soln.) free from CO<sub>2</sub>,

rinsed with distd. water, put into a conical flask (100 ml.)

contg. 70 ml. boiled distd. water, and placed in Hoppler's

thermostat. After heating, the ion exchanger was sepd.

in a Schott's funnel, and titrated. Then it was filtered, re-

generated with NaOH (N, CO<sub>2</sub> free), and after rinsing with

water once more titrated. The results were compared with

those of an unheated sample. It is the most resistant to deg-

radation during heating. II, III, and IV decomp., prob-

ably in the following way: (p) = (CH<sub>2</sub>)<sub>2</sub>CHC<sub>2</sub>H<sub>4</sub>CH<sub>2</sub>N<sup>+</sup>

R<sub>1</sub>R<sub>2</sub>R<sub>3</sub> + OH<sup>-</sup> → = (CH<sub>2</sub>)<sub>2</sub>CH.C<sub>2</sub>H<sub>4</sub>. CH<sub>2</sub>OH + NR<sub>1</sub>

R<sub>2</sub>R<sub>3</sub>, or = (CH<sub>2</sub>)<sub>2</sub>CH.C<sub>2</sub>H<sub>4</sub>.CH<sub>2</sub>NR<sub>1</sub>R<sub>2</sub> + R<sub>3</sub>OH.

L. G. Martin

TA  
41

A

2

DYBCZYNSKI, RAJMUND

Distr: 4E2c

1  
~~Separation of rare earth on anion exchangers. Rajmund~~  
~~Dybczynski (Zaklad Chemii Anal. Inst. Badań Inżynierskich~~  
~~PAN, Warsaw). Chem. Anal. (Warsaw) 4, 531-4(1959).--~~  
1-2/1/3  
3  
Sepn. of trace amts. of Pm<sup>147</sup> and Ce<sup>144</sup> on a chromatographic  
column (0.40 X 55 cm.) packed with a strongly basic ex-  
changer Amberlite IRA-400 (cf. Nachod and Schubert, *Ion*  
*Exchange Technology*, 1956 (C.A. 50, 11562i); Vickery,  
C.A. 47, 3170i; Huffman and Oswald, C.A. 46, 3904c) is  
described. The ion exchanger (0.07-0.10 mm.), in acetate  
form, was treated with a soln. contg. 0.02N AcONa, 0.2N  
AcOH, and 0.02N Na<sub>2</sub>H<sub>2</sub>Y (versenate (pH = 3.82)). The  
latter soln. was used for eluting the elements. Flow rate  
was 0.60 ml./min./sq. cm. The effluent in 5-10 ml.  
samples was evapd. and activity of the residue was measured  
with the aid of a counter (slit width 4 mg./sq. cm.). The  
sepn. proved complete; the rare earths were collected in the  
order of increasing at. numbers. Z. Kurtka

16(1)

SOV/21-59-5-4/25

AUTHOR: Dybenko, G.I.

TITLE: Effect of Rate of Loading upon the Yield Strength in  
Compression, Extension and Shear of DSP-B Plastic

PERIODICAL: Rezhissir

SOV/21-59-5-4/25

Effect of Rate of Loading upon the Yield Strength in Compression,  
Extension and Shear of DSP-B Plastic

4 to 3000 kg/sec, which corresponded to the increased speeds of loading from 1.1 to 830 kg/sec/cm<sup>2</sup>. The results are shown in 4 graphs. The optimum rates for loading increase shown below are recommended for tests on three forms of the linear stressed state.

Compression in 3 directions

Gost standard: 2000 kg/cm<sup>2</sup>/min

Test:  $\approx$  2000 kg/cm<sup>2</sup>/min

Tension along fibers

Gost standard: 4170 kg/cm<sup>2</sup>/min

Test: 400 kg/cm<sup>2</sup>/min

Shear perpendicular to the cementation

Gost standard: None

Test: 50 kg/cm<sup>2</sup>/min

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SCV/21-59-5-4/25

Effect of Rate of Loading upon the Yield Strength in Compression,  
Extension and Shear of DSP-B Plastic

The optimum rate of stress increase in compression coincides with the Soviet standard. During tension it constitutes only 9.6% of the optimum rate recommended by the Soviet standard and during shear perpendicular to the cementation it is not recommended by the Soviet standard.

There are 4 graphs and 1 sketch.

ASSOCIATION: Institut stroitel'noy mekhaniki AN UkrSSR (Institute of Construction Mechanics of the AS UkrSSR)

PRESENTED: By F.P. Belyankin, Member of the AS UkrSSR

SUBMITTED: January 13, 1959

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16 (1)

SOV/21-59-6-10/27

AUTHORS: Yatsenko, V. F., and Dybenko, ~~G. I.~~ I. (Dybenko, G.I.)

TITLE: Effects of the Dimensions of the Sample on the Compressive Strength of DSP Plastic

PERIODICAL: Dopovodi Akademii Nauk Ukrain's'koi RSR, 1959, Nr 6, pp 615-619 (USSR)

ABSTRACT: The authors studied the effect of the scale factor on the compressive strength of DSP plastic. Since the loading rate affects the ultimate strength, a testing method was adopted which allowed the rate of stress increase to remain constant for all dimensions of the samples with a varying rate of loading. DSP plastic is used by the industry in power constructions (in bearings and other important components) as a substitute for expensive non-ferrous metals and alloys. Depending on the technology employed in their preparation, DSP plastics are subdivided into three categories: a) DSP-B, in which every 10 - 20 layers of thin birch sheets with parallel filaments are superimposed by a layer of sheets with filaments crossing the filaments of the below layer at

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SOV/21-59-6-10/27

Effects of the Dimensions of the Sample on the Compressive Strength of DSP Plastic

90°. b) DSP-V, in which the layers of sheets criss-cross one another through the whole thickness of the plastic. c) DSP-G, in which the direction of filaments changes within the plastic thickness every 30°. As a construction material, DSP plastic in the majority of instances is subjected to compression. GOST 5704-51 requires that a test compression be made on 15 x 15 x 15 mm samples, under a permanent compression speed of  $V_p = 4500$  kg per minute. At that, the rate of stress increase is  $2000 \text{ kg/cm}^2$  per minute. All samples subjected to testing had a 6.3 humidity. The authors tested 10 - 30 samples of every category of DSP plastic, having cross sections ranging from 1.4 to 25  $\text{cm}^2$ . Tests were performed on hydraulic "Baldwin" machines, with pressing capacities of 30, 100 and 300 tons. About 600 samples were tested. The results are compiled in 4 graphs and 1 table. It was established that a change in the sample area of about 18 times has practically no effect on the ultimate compressive strength of DSP plastic.

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SOV/21-59-6-10/27

Effects of the Dimensions of the Sample on the Compressive Strength of  
DSP Plastic

There are 4 graphs and 1 table.

ASSOCIATION: Institut stroitel'noy mekhaniki AN UkrSSR (Institute of  
Construction Mechanics of the AS UkrSSR)

PRESENTED: By F.P. Belyankin, Member, AS UkrSSR

SUBMITTED: January 13, 1959

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18(7), 24(6)  
AUTHOR:

Dybenko, G.I.

SOV/21-59-7-9/25

TITLE: Effect of Temperature on the Ultimate Strength of  
DSP-B Plastic in Compression, Tension and Splitting

PERIODICAL: Dopovidi Akademii Nauk Ukrain's'koi RSR, 1959, Nr 7,  
pp 736-739 (UkrSSR)

ABSTRACT: The effect of temperature on the ultimate strength of  
DSP plastic brand " B " is considered with axial  
action of the load. The IBM machine of AS UkrSSR was  
used for this purpose. The dependences of the ultimate  
strength on temperature (ranging from +20 to +200°C)  
are expressed by descending curves, with retarded  
rate of descent. There are 2 figures, 3 diagrams and  
1 table

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ASSOCIATION: Instytut budivel'noy mekhaniky AN URSR (Institute of  
Civil Engineering AS UkrSSR)

PRESENTED: F.P. Belyankin, Member AS UkrSSR

SUBMITTED: January 13, 1959

DYBENKO, G. I., Cand. Tech. Sci. (diss) "Change of Strength and Deformation of Plastic DSP At Increased Temperatures," Kiev, 1961, 20 pp. (Kiev Motor Vehicle and Highway Inst.) 150 copies (KL Supp 12-61, 266).

BELYANKIN, Fedor Pavlovich; YATSENKO, Vladimir Filippovich; DYBENKO,  
Georgiy Ivanovich; KOVALENKO, A.D., akademik, otv. red.;  
TITOVA, N.M., red. izd-va; KADASHEVICH, O.A., tekhn. red.

[Engineering characteristics of the DSP plastic] Mekhanicheskie kharakteristiki plastika DSP. Kiev, Izd-vo Akad. nauk USSR, 1961. 124 p. (MIRA 15:2)

1. Akademiya nauk USSR (for Kovalenko).  
(Plastics--Testing)

41357

S/081/62/000/017/088/102  
B177/B186

15.8520

AUTHOR: Dybenko, G. I.

TITLE: Experimental investigation into the strength and deformability of plastics exposed to elevated temperatures

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 17, 1962, 544-545, abstract 17P82 (In collection: Plastmassy v mashinostr. i priborostr. Kiyev, Gostekhizdat USSR, 1961, 228-236)

TEXT: In order to establish the laws governing the strength and deformability of elastic-viscous plastic materials, diagrams of complete and instantaneous deformations were drawn, deformations at fracture were determined; also values for the conditional limit of proportionality (as a function of the rate of loading in the range 7 - 30,000 kg/min), the strength limit, the critical strain and the modulus of elasticity of laminar wood plastics АСП-Б (DSP-B), АСП-В (DSP-V) and АСП-Р (DSP-G). Laws were derived which make it possible to calculate components and design elements manufactured from elastic-viscous plastic materials.  
[Abstracter's note: Complete translation.]

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S/021/61/000/007/004/011  
D205/D306

15.8510

AUTHORS: Byelyankin, F.P., and Dybenko, H.I.

TITLE: Regularities of time variation and deformability of  
plastics at high temperatures

PERIODICAL: Akademiya nauk Ukrayins'koyi RSR, Dopovid, no. 7,  
1961, 885 - 890

TEXT: The authors give as qualitative results of their experiments:  
1) The strength of plastics is the greater the higher the velocity  
of loading in short-period machine testing. If  $\theta_0 - \infty$  the li-  
mit of strength tends to a maximum value called the "limit of li-  
mits strength"; 2) The strength of plastics at higher temperatures  
is smaller than at normal temperatures if tests are made with the  
same velocity of loading; 3) There is a minimal stress which causes  
failure of the test specimen  $t \rightarrow \infty$  or  $\theta_p \rightarrow 0$ . This minimal  
stress is called the "limit of durable resistance" [Abstractor's

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S/021/61/000/007/004/011  
D205/D306

Regularities of time ...

note:  $\theta_0$  and  $\theta_p$  not defined in the text]. Experiments were carried out in elastic and elasto-plastic region. Only 'wood layer plastics' (DSP) of three kinds were investigated; DSP-B (with orthotropic anisotropy), DSP-V and DSP-H (with transtropic anisotropy). There is only one example of experimental results given in graphic form. Analysis of these graphs is said to enable determination of necessary principal parameters: "limit of limits of strength", "limit of durable resistance", instantaneous and durable modulus of elasticity and "time bases" for the curve of deformation and that of durable resistance. It is claimed that the experiments show that the temperature dependence of these parameters is best expressed by  $y = a \exp(\alpha \cdot \Delta t)$ ,  $\Delta t$  being the difference between higher and normal temperature,  $\alpha$  the temperature coefficient,  $a$  any one of the above mentioned parameters. The rest of the paper is concerned with deductions of theoretical formulae for deformations (elastic, elastic + plastic and deformation at rupture) on the basis of temperature dependence as above. Formulae are illustrated by graphs for 20°, 50° and 100°C. It is stated that the experimen-

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Regularities of time ...

S/021/61/000/007/004/011  
D205/D306

tal results are in good agreement with these formulae on all principal axes of anisotropy. There are 3 figures and 4 Soviet-bloc references.

ASSOCIATION: Instytut mekhaniky AN URSR (Institute of Mechanics UkrRSR)

SUBMITTED: April 5, 1961

X

Card 3/3

BELYANKIN, G.P. [Beliiankin, F.P.], akademik; DYBENKO, G.I. [Dybenko, H.I.]

Functional temperature dependence of the mechanical characteristics  
of a DSP plastic. Dop. AN URSR no.9:1140-1143 '61.

(MIRA 14:11)

1. AN USSR (for Belyankin).  
(Plastics)

S/653/61/000/000/018/051  
I042/I242

AUTHOR: Dybenko, G.I.

TITLE: The strength and deformation of plastics at high temperatures

SOURCE: Plastmassy v mashinostroyenii i priborostroyenii. Pervaya resp. nauch.-tekh. konfer. po vopr. prim. plastmass v mashinostr. i priborostr., Kiev, 1959. Kiev, Gostekhizdat, 1961. 228-236

TEXT: Plastics can be represented by an idealized model consisting of a tough plastic skeleton and a viscous filler. The filler opposes the motion of the skeleton parts which tend to orient themselves with the action of external forces. Deformation is a function of this opposing force, which is in turn proportional to the duration and rate of stress application, and on the temperature-dependent viscosity of

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S/653/61/000/000/018/051  
I042/I242

The strength and deformation of...

the filler. Results of extensive extension, compression, and flexing tests on several types of АСП (DSP) plastics at different temperatures and conditions of stress point to considerable anisotropy in these materials and confirm the correctness of the model. The limit of endurance, the conditional limit of proportionality, and the critical stress all decreased markedly with increase in temperature. Temperature variations bring about changes in the structure of the skeleton. Thus at low temperatures the filler forms microskeletons which can attach themselves to the main skeleton and increase the resistance of the model to stress and deformation. At high temperatures this process is reversed. Both processes are accompanied by a redistribution of external stresses between the skeleton and filler whose rate increases with temperature. The dependence of strength of the material on the rate of application of stress was studied experimentally and is discussed at length. There are 7 figures.

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DYBENKO, G.I.

12

S/198/62/008/005/008/009  
D234/D308

AUTHOR: Botte, O. V.  
TITLE: Dissertations defended in 1961 at the Institutes of the  
Division of Technical Sciences, AS UkrSSR, in the  
field of mechanics  
PERIODICAL: Akademiya nauk Ukrayins'koyi RSR. Instytut mekhaniky.  
Prikladna mekhanika, v..8, no. 5, 1962, 571-575

TEXT: The following dissertations were presented by the collabora-  
tors of the above section and approved: For the degree of Candidate  
of Technical Sciences: Instytut mekhaniky (Institute of Mechanics):  
Vasyl' Mykolayovych Buyvol, Aspirant: 'Plane problems of the theory  
of elasticity for multiply-connected regions with cyclic symmetry',  
on March 16, 1961, at Dnipropetrovsk Universty. Yaroslav Mykhaylo-  
yich Hryhorenko, Junior Scientific Collaborator: 'Stressed state  
of round plates and conical shells of linearly varying thickness  
under asymmetric loads', on April 6, at Dnipropetrovsk University.  
Igor Tymofiyovych Selezov, Aspirant, 'Investigation of the propa-

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Dissertations defended in ...

S/198/62/008/005/008/009  
D234/D308

gation of elastic waves in plates and shells', on June 19, at Ky-  
yivs'kyi politekhnichnyi instytut (Kiev Polytechnic Institute).  
Andriy Feofanovych Uliako, Aspirant, 'Solution of 3-dimensional  
problems of the theory of elasticity by the method of vector eigen-  
functions', on September 26, at Kiev University. Mikhaylo Petrovych  
Petrenko, Junior Scientific Collaborator, 'Transverse and longi-  
tudinal vibrations in short rods of constant and variable thick-  
ness, due to impacts', on October 24, at Kiev University. Mariya  
Dmytrivna Synyavs'ka, Junior Scientific Collaborator, 'Increase of  
wear resistance of piston rings of integral combustion engines  
with the aid of galvanic coating', on October 24, at Kyivskyy  
avtomobil'no dorozhnyi instytut (Kiev Institute of Automobiles and  
Highways). Heorhii Ivanovych Dybenko, Engineer, 'Change of strength  
and deformability of ДСН (DSP) plastics in time at increased tem-  
peratures', on November 28, at Kiev Institute of Automobiles and  
Highways. For the degree of Doctor of Technical Sciences: Instytut  
elektrozv'yuvannya im. Ye. O. Patona (Institute of Electric Weld-  
ing imeni Ye. O. Paton): Boris Oleksiyovych Movchan, Senior Scien-  
tific Collaborator, Candidate of Technical Sciences, 'Microscopic  
Card 2/3

S/198/62/008/005/008/009  
D234/D308

Dissertations defended in ...

inhomogeneities in cast alloys', on May 16, at the Siberian sections of AS USSR. For the degree of Candidate of Technical Sciences: Instytut mashynoznavstva ta avtomatyky (Institute of Machine Science and Automation): Hryhorii Semenoviych Kit, Junior Scientific Collaborator, 'Approximate solution of the problem of free torsion', on March 16, at Dnipropetrovsk University. Hryhorii Vasyl'oviych Plyatsko, Junior Scientific Collaborator, 'Nonstationary problems of heat conduction and thermoelasticity', on April 20, at the Institute of Mechanics of AS UkrSSR. Mykola Yuriyoviych Shvayko, Aspirant, 'Some problems of elastoplastic torsion of prismatic rods', on December 25, at L'viv University. Instytut metalokeramiky i spetsial'nykh splaviv (Institute of Metal Ceramics and Special Alloys): Volodymyr Ivanoviych Kovpak, Aspirant: 'Investigation of durable strength during programmed change of load and temperature', on October 23, at Kiev Polytechnic Institute.

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L 17471-63 EPR/EWP(j)/EPF(c)/EWT(m)/BDS AFFTC/ASD Pr-4/PS-4/PC-4 RM/WW

ACCESSION NR: AP3004775 S/0191/63/000/008/0041/0045

AUTHORS: Yatsenko, V. F.; Dy\*benko, G. I.

TITLE: Prolonged strength of laminated plastics

SOURCE: Plasticheskiye massy\*, no. 8, 1963, 41-45

TOPIC TAGS: DSP resin, KAST-V fiberglass, VFT-S fiberglass, SVAM fiberglass

ABSTRACT: Strength curves were drawn for laminates using DSP resins and KAST-V, VFT-S, and SVAM fiberglasses. The strengths decreased asymptotically with time. This levelling out of the strength curves, or the strength limits Sigma can best be represented as an exponential function

$$\sigma = a + b \cdot e^{-a \left( \frac{t}{t_1} \right)^c}$$

where a and b are coefficients dependent on material strength; c is constant

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L 17471-63

ACCESSION NR: AP3004775

dependent on rate of change of breakpoint with time;  $t$  is breaking time;  $t_1$  is the starting time for the curves in which the strength limit changing with time reaches a value exceeding the value of the limit of prolonged strength by  $L_p$  (tolerance in determining characteristic strength); and Alpha is a constant coefficient dependent on tolerance in tension at the starting point of the tests at  $t_1$ . Orig. art. has: 5 figures and 7 formulas.

ASSOCIATION: none

SUBMITTED: 00

DATE ACQ: 28Aug63

ENCL: 00

SUB CODE: MA

NO REF SOV: 022

OTHER: 000

Card 2/2

BELYANKIN, F.P. [Bieliankin, F.P.] (Kiyev); DYBENKO, G.I. [Dybenko, H.I.]  
(Kiyev)

Effect of temperature on the specific impact strength of laminated  
plastics. Prykl.mekh. 9 no.5:506-512 '63. (MIRA 16:10)

1. Institut mekhaniki AN UkrSSR.

BELYANKIN, F.P.; DYBENKO, G.I.

Effect of the rate of deformation and of the rate of loading on  
the strength of samples of various sizes of laminated plastics.  
Zav. lab. 29 no.10:1235-1240 '63. (MIRA 16:12)

1. Institut mekhaniki AN UkrSSR.

L 11422-63

EPR/EWP(j)/EPF(c)/EWT(m)/BDS

AFFTC/ASD Ps-4/Pc-4/Pr-4  
S/032/63/029/005/014/022

RM/WJ

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AUTHORS: Yatsenko, V. F. and Dybenko, G. I.

TITLE: The influence of the rate of loading on the tensile strength of plastic glass-impregnated laminated cloth at room temperature

PERIODICAL: Zavodskaya laboratoriya, v. 29, no. 5, 1963, 598-599

TEXT: Three types of plastic glass-impregnated laminated cloth (designated KAST-V, VFT-S and SVAM, but not otherwise identified) were tested for tensile strength and optimal rate of rise in tension along the weft and warp and perpendicular to the layers under conditions of tension, compression and shearing action at 18-20°C, with the anisotropy of the material taken into account. The results are presented. There are one figure and two tables.

ASSOCIATION: Institut mekhaniki Akademii nauk UkrSSR (Institute of Mechanics, Academy of Sciences Ukrainian SSR)

ja/ca

Card 1/1

L 55090-65 EWT(d)/EPA(s)-2/EWT(m)/EWP(w)/EPF(s)/EWP(v)/EPR/EWP(j)/T/EWP(k)/

EWA(h) Pc-4/Pf-4/Pr-4/Ps-4/Pt-7/Peb WW/EM/RM  
ACCESSION NR AM 5004032 BOOK EXPLOITATION

UR/ 38  
6P7.55 B Lh 55

Belyakin, Fedor Pavlovich; Yatsenko, Vladimir Filippovich; Dybenko, Georgiy  
Ivanovich

Strength and deformation of laminated plastics (Prochnost' i deformativnost' sloistykh plastikov), Kiev, Naukova dumka, 1964, 217 p. illus., biblio. 1000 copies printed. (At head of title: Akademiya nauk Ukrainsskoy SSR. Institut mekhaniki)

TOPIC TAGS: laminated material, glass product, reinforced plastic, nonmetal composite, nonmetal deformation, temperature, mechanic measuring tool, industrial equipment

PURPOSE AND COVERAGE: The book reports the results of experimental and theoretical studies on laminated plastics and describes methods for mechanical testing under conditions of continuous loads or deformation, and the effects of static, cyclic, and impact loads. The book discusses characteristics of strength, resistance, and deformation of laminated wood plastics and glass-reinforced plastics under conditions of tension, extension, and compression, bending, and shearing. The book is intended for scientific

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ACCESSION NR AM5004032

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and technical institutes, laboratories at institutions of higher learning, industrial laboratories, and design and planning departments.

TABLE OF CONTENTS (abridged):

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Characteristics of laminated plastics -- 5

Basic laws governing changes in strength and deformability of laminated plastics in the course of time -- 8

Testing apparatus and instruments -- 46

Design of notches of test specimen, selection of their form and dimensions -- 55

Determining the volumetric weight, moisture content, water absorption, and number of layers in 1 cm plywood -- 63

Methods for processing the results of testing at fixed rates of loading or deformation -- 67

Results of testing with constant loading speeds -- 83

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ACCESSION NR AM5004032

Effect of increased temperatures and moisture content on the mechanical characteristics of laminated plastics -- 115

Methods for determining mechanical characteristics of strength and deformability during prolonged action of static loads -- 142

Results of testing laminated plastics during prolonged action of static loads - 156

Characteristics of plastics during impact -- 190

Strength of laminated plastics under cyclic loads -- 200

Poisson's ratio and deformability -- 210

SUBMITTED: 23Jul64

SUB CODE: MT

NO REF SOV : 034

OTHER: 002

*AL*  
Card 3/3

DYBENKO, N.

Utilize more fully potentials for increasing labor productivity.  
Sots. trud 8 no.7:22-29 J1 '63. (MIRA 16:10)

1. Sekretar' Novosibirskogo promyshlennogo oblastnogo komiteta  
Kommunisticheskoy partii Sovetskogo Soyuzsa.

DYBNIKOVSKAYA, Ye.G.

~~Minutes of the joint session of the Surgical Society of Moscow~~  
Minutes of the joint session of the Surgical Society of Moscow  
and Moscow Province and of the Scientific Council of the Vishnev-  
skii Institute of Surgery, held on June 25th 1954. Khirurgia  
no.2:88-90 F '55. (MLRA 8:5)  
(SURGERY)

*DYBICKA, A.*

EXCERPTA MEDICA Sec.12 Vol.11/3 Ophthalmology Mar57

545. *DYBICKA A.*, MATULEWICZ S. and PIEŁOWSKI J. Klin. Ocznej. Zakt. Radiol. i Klin. Chorób Nerwowych A. M., Gdańsk. \*Guzy pierwotne pęczków wzrokowych. Primary tumours of the optic nerves NEUROL. NEUROCHIR. PSYCHIAT. POL. 1956, 6/2 (181-190) Illus. 7

In 2 cases in children a primary atrophy of the optic nerve and a dilatation of the optic canals have been found. In one case a pear-like dilatation of the sella and in the other absence of the sellar tubercle have been noted. In one of the cases symptoms of compression of the ventricular system and an internal hydrocephalus were present. The children were irradiated by X-rays. The first control examination following a 2-month period has shown an insignificant improvement.

Stepien - Łódź (VIII,12,16)

DYBICKA, Anna; KOZAKIEWICZ, Angelina

Therapeutic value of hyaluronidase in diseases of the cornea. *Klin. oczna* 27 no.4:617-622 1957.

1. Z Kliniki Ocznej A. M. w Gdansk. Kierownik: prof. dr med. I. Abramowicz.  
(CORNEA, dis.  
ther., hyaluronidase (Pol))  
(HYALURONIDASE, ther. use  
corneal dis. (Pol))

DYBICKA, Anna

Clinical studies on the role of the sympathetic system in ocular accommodation. Klin. oczna 33 no.2:141-146 '63.

1. Z Kliniki Chorob Oczu AM w Gdansk Kierownik: prof. dr nauk med. I. Abramowicz.

(ACCOMMODATION, OCULAR) (PROCAINE)  
(AUTONOMIC NERVE BLOCK) (HORNER'S SYNDROME)  
(HYPERTHYROIDISM) (AMPHETAMINE)  
(PHARMACOLOGY)

DYBICKI, J;HORODKO, W.

Colloidal contents of plasma and morphology of blood in patients  
who underwent collapsotherapy. Gruzlica, Warsz. 20 no. 1:89-98  
Jan-Feb 1952. (CML 22:2)

1. Of the Second Surgical Clinic (Head--Prof. K. Debicki, M. D.)  
of Gdansk Medical Academy.

DYBICKI, J.;BINCHROWA, J.

Changes in intercostal lymph nodes in pulmonary tuberculosis and their significance in postoperative complications. Gruslica, Warsz. 20 no. 4:477-496 July-Aug 1952. (CJML 23:3)

1. Of the Second Surgical Clinic (Head--Prof. K. Debicki, M. D.) of Gdansk Medical Academy and of Gdansk Division (Head--K. Lachowicz, M.D.) of State Institute of Hygiene.

BINCEROWA, J.; DYBICKI, J.

Effect of streptomycin on tuberculous changes in intercostal lymph nodes. *Gruslica* 20:6 Suppl. 2:126-128 1952. (CLML 24:2)

1. Gdansk.

DYBICKI, J.

Streptomycin in surgical treatment of pulmonary tuberculosis.  
Gruzlica 20:6 Suppl. 2:128-131 1952. (GLML 24:2)

1. Of the Second Surgical Clinic, Gdansk.

DYBICKI, JERZY

HORODKO, Wladyslaw; DYBICKI, Jerzy

Effect of blood transfusion on plasma colloidal components and on morphological changes of the blood in collapse therapy. Gruslica 23 no.5:319-324.

1. Z II Kliniki Chirurgicznej A.M. G. Dyrektor: prof.dr K. Debicki  
Wrzeszcz Devinki 7, II Klinika Chirurgiczna.

(COLLAPSE THERAPY,

eff. of blood transfusion on blood picture)

(BLOOD,

picture, eff. of transfusion in collapse ther.)

(BLOOD TRANSFUSION,

eff. on blood picture in collapse ther.)

DYBICKI, JERZY

DYBICKI, Jerzy; WOJEWSKI, Alfons.

Urolithiasis and its relation to hyperparathyroidism. Urol.  
polska 7:106-112 1954.

1. Z Oddziału Urologicznego--Kierownik: dr T. Lorenz--III  
Kliniki Chirurgicznej AMG; dyrektor: prof.dr Z. Kieturakis.  
(PARATHYROID GLAND, diseases,  
hyperfunct. with urolithiasis)  
(CALCULI,  
urinary, in parathyroid hyperfunct.)  
(URINARY TRACT, calculi,  
in hyperparathyroidism.)

BOCHINSKI, Karol; DWORAK, Wlodzimierz; DYBICKI, Jerzy

Distreptase in the treatment of post-operative blood clots following extrapleural of extrafascial p̄neumothorax. Gruzlica 23 no.12:883-888 Dec 55.

1. Z Panstwowego Sanatorium Przeciwgruzicznego dla Mlodziezy w Dierzaznie. Dyrektor: dr. W. Dworak, Dierzazno, pow. Kartuzy, Panstwowego Sanatorium Przeciwgruziczne dla Mlodziezy.

(PNEUMOTHORAX, ARTIFICIAL

extrafascial & extrapleural, postop. hematoma ther. with streptokinase & streptodornase)

(HEMATOMA

postop., in extrafascial & extrapleural pneumothorax, streptokinase & streptodornase ther.)

(STREPTODORNASE AND STREPTOKINASE, ther. use

postop. hematoma in extrapleural & extrafascial pneumothorax)

EXCERPTA MEDICA Sec.15 Vol.10/4 Chest Diseases Apr57

957. DYBICKI J., BOCHIŃSKI K. and DWORAK W. \*Odna zewnątrzpowięziowa uzupełniająca torakoplastykę. Extrafascial pneumothorax complementary to thoracoplasty GRUŻLICA 1956, 24/5 (371-377) Illus. 11

The results of treatment in 24 patients by one-stage 3- or 4-rib thoracoplasty, followed by extrafascial pneumothorax in the postoperative period, are reported. In these cases a modified apicolysis and fixation of the apex of the lung by means of muscle bundles was used. In 23 patients early good results were obtained. The opinion is held that the described modification of apicolysis permitted, in the majority of the cases, to perform one-stage 3-4 rib thoracoplasty instead of a 5-6 rib one, and good collapse was obtained.

(XV, 9)

DYBICKI, Jerzy

Bronchspirometry. II. Functional changes of the respiratory tract selected for and treated by resection of pulmonary tissue; Bezancon's method. Gruzlica 24 no.12;1185-1197 Dec 56.

1. Z II Kliniki Chirurgicznej Akademii Medycznej w Gdansku  
Kierownik: prof. dr. K. Debicki. Adres: Gdansk-Wrzeszcz, ul.  
Fahrenheita 4.

(RESPIRATION, function tests,

bronchspirometry, pre- & postpneumonectomy,  
Bezancon's method (Pol))

(PNEUMONECTOMY,

preop. & postop. bronchspirometry, Bezancon's method (Pol))

DYBICKI, Jerzy  
DYBICKI, Jerzy (Gdańsk - Wrzeszcz, ul. Fahrenheita 4.)

Bronchspirometry. III. Functional examination of the lung in segmen-  
tectomies complicated by pleural hemorrhage or effusion. Gruzlica 25  
no.3:223-231 Mar 57.

1. Z II Kliniki Chirurgicznej A.M. w Gdańsku Kierownik: prof. dr K.  
Debicki.

(RESPIRATION, funct. tests

bronchspirometry in tuberc. patients after lobectomy com-  
plicated by pleural hemorrh. or effusion (Pol))

(TUBERCULOSIS, PULMONARY, physiol.

bronchspirometry after lobectomy complicated by pleural  
hemorrh. or effusion (Pol))

*DYBICKI, JERZY*  
DWORAK, Włodzimierz; DYBICKI, Jerzy; BOCHINSKI, Karol

Nontuberculous ~~lesions~~ in the lungs of patients erroneously directed to the sanatorium. Gruzlica 25 no.7:587-593 July 57.

1. Z Sanatorium Przeciwgruzliczego dla Młodzieży w Dzierzaznie Dyrektor:  
dr Wl Dworak. Adres: Sanatorium w Dzierzaznie.

(LUNG DISEASES, differ. diag.

pulm. tuberc. (Pol))

(TUBERCULOSIS, PULMONARY, differ. diag.

lung dis., nontuberc. (Pol))

DYBICKI, Jerzy (Gdansk-Wrzeszcz, ul. Farenheitz 4)

Functional respiratory changes in patients treated with thoracoplasty, extrapleural pneumothorax & pneumonectomy. Gruzlica 25 no.10:781-801 Oct 57.

1. Z II Kliniki Chirurgicznej Akademii Medycznej w Gdansku. Kierownik: prof. K. Debicki.

(RESPIRATION, physiol.

eff. of extrapleural pneumonectomy & thoracoplasty (Pol))

(PNEUMONECTOMY, eff.

on resp. (Pol))

(COLLAPSE THERAPY

thoracoplasty, eff. on resp. (Pol))

(PNEUMOTHORAX, ARTIFICIAL,

extrapleural, eff. on resp. (Pol))

BILLEWICZ, Olgierd; DYBICKI, Jerzy

Lymphangioma of the mediastinum. Polski przegl. chir. 30 no.4:403-408  
Apr 58.

1. Zakładu Radiologii A. M. G. Kierownik: prof. dr W. Grabowski z II  
Kliniki Chirurgicznej A. M. G. Kierownik: prof. dr K. Debicki Gdansk-  
Wrzeszcz, ul. Fahrenheita 4.

(MEDIASTINUM, neoplasms  
lymphangioma, surg. (Pol))  
(LYMPHANGIOMA, case reports  
mediastinum, surg. (Pol))

DYBICKI, Jerzy; DWORAK, Włodzimierz

Perlon plombage in therapy of cavity of the lower lobes. Gruzlica 27  
no.2:147-150 Feb 59.

I. Z Sanatorium Przecwgruzliczego dla Młodzieży w Dzierżaznie Dyrektor:  
dr W. Dworak . Adres: Gdansk-Wrzeszcz, ul. Fahrenheita 4.  
(TUBERCULOSIS, PULMONARY, pathol.  
cavitation of lower lobes, perlon plombage (Pol))

DYBICKI, Jerzy; DWORAK, Wlodzimierz; BOCHINSKI, Karol

Extramusculo-periosteal pneumothorax in the treatment of cavernous tuberculosis in adolescents. Gruzlica 28 no.3:211-218 Mr '60.

1. Z II Kliniki Chirurgicznej A.M. w Gdansk. Dyrektor: prof.dr K. Debicki. Z Panstwowego Sanatorium Przeciwgruzliczego dla Mlodziezy w Dzierzaznie. Dyrektor: dr W. Dworak.  
(PNEUMOTHORAX ARTIFICIAL in adolescence)

DYBICKI, Jerzy; BALCHUM, Oscar J.; MERRILL, Joseph M.; MENEELY, George R.

Studies on pulmonary perfusion and ventilation in dogs with the aid of an alcoholic method. Cuzlica 28 no.6:431-438 Je '60.

1. Z Osrodka Radioizotopowego Uniwersytetu Vanderbilta w Nashville Dyrektor: prof. dr George R.Meneely oraz z Oddzialu Fizjologii Klinicznej Szpitala Weteranow im. Thayera w Nashville Kierownik: dr Joseph M.Merrill  
(ALCHOHOL ETHYL pharmacol)  
(RESPIRATION physiol)  
(LUNGS physiol)

DYBICKI, Jerzy; BOROWSKA-LEHMAN, Jolanta; JUNGOWSKA, Anna

A syndrome of intrapulmonary "sequestration". Gruzlica 29 no.5:  
429-443 My '61.

1. Z II Kliniki Chirurgicznej AMG Kierownik: prof. dr med. K. Debieki  
z Zakładu Anatomii Patologicznej AMG Kierownik: prof. dr med. W.  
Czarnecki z Zakładu Radiologii AMG Kierownik: prof. dr med. W.  
Grabowski.

(LUNG abnorm)

DYBICKI, Jerzy; BARTOSZEWICZ, Tadeusz; JANCZAKOWSKI, Włodzimierz

On the management of spontaneous pneumothorax. Gruzlica 30  
no.8:743-751 '62.

1. Z II Kliniki Chirurgicznej AM w Gdansk Kierownik: prof.  
dr K. Debicki.  
(PNEUMOTHORAX) (SURGERY, OPERATIVE)

SZCZYGIELSKI, Leszek; DYBICKI, Jerzy; BOCHINSKI, Karol; DWORAK,  
Włodzimierz; STAROŚCIAK, Tadeusz; MOLESTA, Jadwiga

Notes on the function of the respiratory system following  
extensive bilateral pulmonary resection (in bronchiectasis).  
Gruzlica 30 no.10:965-970 '62.

1. Z II Kliniki Chirurgicznej AM w Gdansku Kierownik: prof.  
dr med. K. Debicki i Sanatorium Przeciwgruzliczego dla  
Młodzieży w Dzierżanowie Kierownik: dr med. W. Dworak.  
(BRONCHIECTASIS) (PNEUMONECTOMY)  
(RESPIRATORY FUNCTION TESTS)

DYBICKI, Jerzy; MIERZEJEWSKI, Tadeusz; BARTOSZEWICZ, Tadeusz;  
NARKIEWICZ, Mirosława

Congenital pulmonary hypoplasia. Pol. przegl. radiol. 27  
no.6:449-456 '63.

l. Z II Kliniki Chirurgicznej AMG Kierownik: prof. dr med.  
K. Debicki Z Kliniki Radiologii i Radioterapii Kierownik:  
prof. dr med. W. Grabowski[deceased].  
    (LUNG DISEASES)      (ABNORMALITIES)  
    (THORACIC RADIOGRAPHY)      (BRONCHOGRAPHY)

MARKIEWICZ, Mirosława; DYBICKI, Jerzy; BOJ, Ewa; BARIOSZEWICZ, Tadeusz;  
BOCHINSKI, Karol; SZCZYGIELSKI, Leszek; KOLESZA, Janina;  
DWORAK, Młodzimierz

Apropos of the malignancy of so-called bronchial adenomas.  
Gruzlica 32 no.3:243-249 Mr 1964.

1. Z II Kliniki Chirurgicznej (Kierownik: prof. dr. K. Debicki)  
i z Zakładu Anatomii Patologicznej (Kierownik: prof. dr. W.  
Czarnecki [deceased] oraz z Sanatorium Przeciwgruzielnego dla  
Młodzieży w Dzierżaznie (Kierownik: dr. W. Dworak).

A. Cat, Temp: 27.0°C, Humidity: 75%, 10/10/70, 10/10/70

Use of the following method in the treatment of the above. Results:  
30 min. (10/10/70) in 100.

1. 10/10/70 (10/10/70) (10/10/70) (10/10/70) (10/10/70)  
(10/10/70) (10/10/70) (10/10/70) (10/10/70).

DYBICKI, Jerzy; BOJ, Ewa; DWORAK, Włodzimierz; SZCZYGIELSKI, Leszek;  
MOLESTA, Jadwięa; BOCHINSKI, Karol

Studies on reactions of the bronchial wall to some types of  
thread used in surgery in dogs. Gruzlica 32 no.10:915-922  
0 '64

1. Z II Kliniki Chirurgicznej Akademii Medycznej w Gdansk  
(Kierownik: prof. dr. K. Debieki); z Zakładu Anatomii patologicznej  
Akademii Medycznej w Gdansk (Kierownik: prof. dr. W. Czarnocki);  
i z Sanatorium Przeciwgruzliczego dla Młodzieży w Dzierzynie  
(Kierownik: dr. W. Dworak).

DYBICKI, Jerzy; WROBLEK, Stanislaw; BARTOSZEWICZ, Tadeusz;  
PACIENSKI, Eugeniusz

Surgical treatment of protracted broncho-pleural fistula  
following pneumonectomy. Gruzlica 33 no.5:389-395 My '65.

1. W II Kliniki Chirurgicznej AM w Gdansk (Kierownik: prof.  
dr. K. Debicki).

WOJTOWICZ, Mikolaj; DYBICKI, Jerzy; ZAWISTOWSKI, Stanislaw;  
BAITOSZEWICZ, Tadeusz; WRZOLEK, Stanislaw

Effect of polarizing solution on the heart rhythm in experimental  
acute coronary insufficiency. Pt.3. Pol. arch. med. wewnet. 35 no.6:  
835-838 '65.

1. Z I Kliniki Chorob Wewnętrznych AM w Gdansku (Kierownik: prof.  
dr. med. M. Gorski), z II Kliniki Chirurgicznej AM w Gdansku  
(Kierownik: prof. dr. med. K. Debicki) oraz z Zakładu Histologii  
i Embriologii (Kierownik: prof. dr. med. S. Hiller).

BOJ, Ewa; DYBICKI, Jerzy; DWORAK, Włodzimierz; SZCZYCIELSKI, Leszek;  
MOLESTA, Jadwiga; SZELEZYNSKI, Kazimierz

Studies on the appearance of bronchial fistulae following the excision of tuberculous pulmonary tissues in adolescents and young adults. Pol. przeł chir. 36 no.7:905-916 Je '64.

1. Z Zakładu Anatomii Patologicznej AMG (Kierownik: prof. dr W. Czarnocki) i z II Kliniki Chirurgicznej AMG (Kierownik: prof. dr K. Debicki) i Państw. Sanatorium Przeciwwgruzliczego dla Młodzieży w Dzierżaznie Kierownik: dr W. Dworak.

WOJTOWICZ, Mikołaj; DYBICKI, Jerzy; ZAWISTOWSKI, Stanisław; BARTOSZEWICZ, Tadeusz; WRZOLEK, Stanisław

Ventricular fibrillation in temporary occlusion of the coronary artery. Pol. arch. med. wewnet. 35 no.3:377-382 '65.

1. Z I Kliniki Chorob Wewnętrznych Akademii Medycznej w Gdansk (Kierownik: prof. dr. med. M. Gorski) ; z II Kliniki Chirurgicznej Akademii Medycznej w Gdansk (Kierownik: prof. dr. med. K. Debicki) oraz z Zakładu Histologii i Embriologii Akademii Medycznej w Gdansk (Kierownik: prof. dr. med. S. Hiller).

WOJTOWICZ, Mikolaj; DYBICKI, Jerzy; ZAWISTOWSKI, Stanislaw;  
WRZOLEK, Stanislaw; BARTOSZEWICZ, Tadeusz

Studies on the development of ventricular fibrillation in  
experiments with temporary occlusion of the coronary artery.  
II. Pol. arch. med. wewnet. 35 no.5:681-683 '65.

1. Z I Kliniki Chorob Wewnętrznych AM w Gdansk (Kierownik:  
prof. dr. med. M. Gorski), z II Kliniki Chirurgicznej AM w  
Gdansk (Kierownik: prof. dr. med. K. Debicki) oraz z Zakladu  
Histologii i Embriologii AM W Gdansk (Kierownik: prof. dr.  
med. S. Hiller).

DEBICKI, Kazimierz; DYBICKI, Jerzy; BARTOSZEWICZ, Tadeusz; NOWAKOWSKI,  
Jan

Thoracic Surgical Department of the 2d Surgical Clinic of the  
Medical Academy in Gdansk in 1948-1964. Pol. przegl. chir. 37  
no. 12:1220-1226 D ' 65.

1. Z II Kliniki Chirurgicznej AM w Gdansk (Kierownik: prof.  
dr. K. Debicki).

DYBIEC, Czeslaw; SIECLA, Tadeusz

Effects of surface consolidation of steel 45 by various  
burnishing treatments. Inst mech precyz 12 no. 1:35-43  
'64.

DYBIEC, Julian

Michal Wiazniewski as Professor of General History in  
Jagiellonian University. Kwart hist nauki i tech 9  
no. 2: 211-227 '64.

L 55957-65 EWT(d)/T IJP(c)

ACCESSION NR: AP5010819

UR/0020/65/161/004/0753/0756

AUTHOR: Dybin, V. B.

TITLE: An exceptional case of integral equations of the convolution type in a class of generalized functions <sup>11</sup><sub>10</sub>  
16

SOURCE: AN SSSR. Doklady, v. 161, no. 4, 1965, 753-756

TOPIC TAGS: integral equation, generalized function

ABSTRACT: The following equations are considered: a convolution with two kernels:

$$\lambda f(x) + \frac{1}{\sqrt{2\pi}} \int_{-\infty}^{\infty} k_1(x-t)f(t) dt + \frac{1}{\sqrt{2\pi}} \int_{-\infty}^0 k_2(x-t)f(t) dt = g(x), \quad -\infty < x < \infty, \quad (1)$$

and the paired equations:

$$\lambda_1 f(x) + \frac{1}{\sqrt{2\pi}} \int_{-\infty}^{\infty} k_1(x-t)f(t) dt = g(x), \quad x > 0,$$

$$\lambda_2 f(x) + \frac{1}{\sqrt{2\pi}} \int_{-\infty}^{\infty} k_2(x-t)f(t) dt = g(x), \quad x < 0. \quad (2)$$

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L 55957-65

ACCESSION NR: AP5010819

The equations are studied by reducing them to the problem of a linear conjugate, the coefficients of which may have zeroes of integral order in a finite number of points of a contour which includes an infinitely distant point. "The normal case of the problem of the linear conjugate and of equations (1) and (2) in the space  $(n, n)$  was investigated by Yu. I. Cherskiy (*DAN*, 151, No 3 (1953)), under whose direction the present work was carried out." Orig. art. has: 24 formulas.

ASSOCIATION: Rostovskiy gosudarstvennyy universitet (Rostov State University)

SUBMITTED: 05Jun64

ENCL: 00

SUB CODE: MA

NO REF SOV: 005

OTHER: 000

Card 2/2

ACC NR: AP6033061 . SOURCE CODE: UR/0428/66/000/003/0037/0045

AUTHOR: Dybin, V. B.

ORG: none

TITLE: Exclusive case of integral equations of convolution type

SOURCE: AN BSSR. Vestsi. Seryya fizika-matematichnykh navuk, no. 3, 1966, 37-45

TOPIC TAGS: integral equation, convolution type equation, solvability condition, Riemann problem, Fourier transformation

ABSTRACT: The solvability of the well known integral equation

$$\lambda f(x) + \frac{1}{\sqrt{2\pi}} \int_0^{\infty} k(x-t) f(t) dt = g(x); x > 0 \quad (1)$$

in the class of functions  $P_n(x)f(x)$ , where  $P_n$  is an arbitrary polynomial of the  $n$ -th degree and  $f(x)$  is a bounded function on the real axis is analyzed. This kind of problem arises in mechanics, radio engineering, and other practically important sciences. To derive solvability criteria and to present the general solution of equation (1) the author

Card 1/2

ACC NR: AP6033061

presents the concepts of the space  $L_1(-n, 0)$  ( $n \geq 0$  is an integer) of the basic functions  $\phi(x)$  and of the space  $L_1(n, 0)$  of generalized functions  $f$  over the space  $L_1(-n, 0)$  as well as the concepts of spaces  $R(0, -n)$  and  $R(0, n)$  which are spaces of Fourier transforms of elements from  $L_1(-n, 0)$  and  $L_1(n, 0)$ , respectively. Under certain assumptions concerning the kernel  $k(x)$ , equation (1) in the class  $L_1(n, 0)$  is written and transformed to a form to which the Fourier transformation can be applied and the problem can be reduced to an equivalent Riemann problem. Necessary and sufficient conditions for solving this equation are derived. Assuming that the derived solvability conditions are satisfied, the following theorem concerning the number of solutions is proved: when the index  $X$  of the equation is positive ( $x > 0$ ), then the equation has exactly  $X$  linearly independent solutions in the class of functions  $L_1(n, 0)$ ; when  $X \leq 0$ , the obtained solution is unique. The general form of the solution is presented. Orig. art. has: 16 equations.

[LK]

SUB CODE: 12/ SUBM DATE: 15Apr66/ ORIG REF: 012

Card 2/2

L 03017-57 EWT(d) LJP(c)  
ACC NRI AP6028217

SOURCE CODE: UR/0199/66/007/003/0531/0545

AUTHOR: Dybin, V. B.; Karapetyants, N. K.

ORG: none

24  
B

TITLE: Convolution type integral equations in a class of generalized functions

SOURCE: Sibirskiy matematicheskiy zhurnal, v. 7, no. 3, 1966, 531-545

TOPIC TAGS: integral equation, boundary value problem, partial differential equation

ABSTRACT: A general method is proposed for the solution of the Wiener-Hopf equation

$$\lambda f(x) + \frac{1}{\sqrt{2\pi}} \int_0^{\infty} k(x-t)f(t)dt = g(x), \quad x > 0,$$

and its generalized equations

$$\lambda_1 f(x) + \frac{1}{\sqrt{2\pi}} \int_{-\infty}^{\infty} k_1(x-t)f(t)dt = g(x), \quad x > 0,$$

$$\lambda_2 f(x) + \frac{1}{\sqrt{2\pi}} \int_{-\infty}^{\infty} k_2(x-t)f(t)dt = g(x), \quad x < 0,$$

Card 1/2

UDC: 517.948.32/33

L 03017-67

ACC NR: AP6028217

in two classes of slowly increasing generalized functions of finite order. A special case of these classes is given by spaces of functions of form  $(x + i)^k f(x)$ , where  $k$  is a positive integer and  $f(x)$  is either a bounded or a square-summable function. The method for Riemann's problem is used, in which the Fourier transformation figures. To illustrate the application of the method, two examples are presented of solutions of the Wiener-Hopf problem. Orig. art. has: 62 formulas.

SUB CODE: 12/      SUBM DATE: 17May65/      ORIG REF: 017/      OTH REF: 001

Card 2/2 *egh*

~~XXXXXXXXXXXXXXXXXXXX~~  
DYBINA, P., doktor tekhn.nauk, prof.

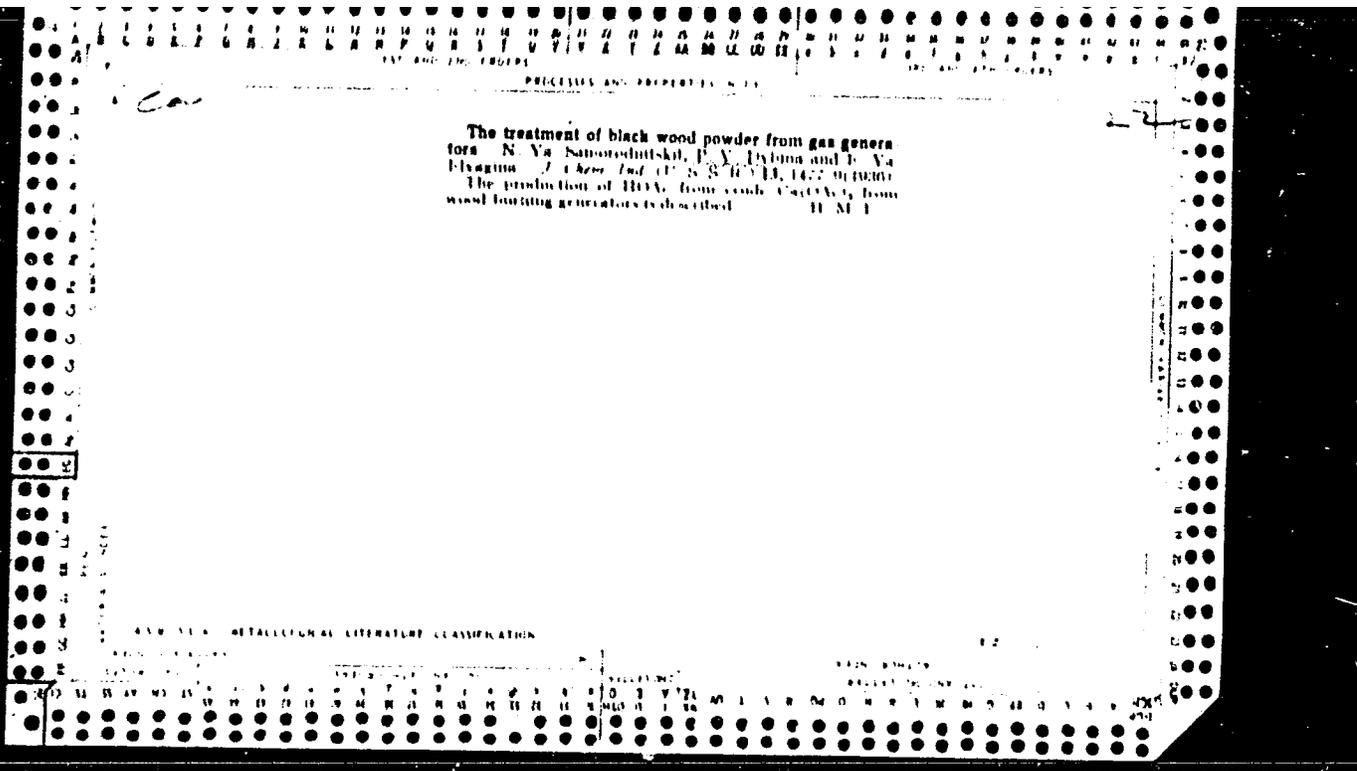
International Conference on Chemistry in Paris. IFTO 2 no.2:  
62 F '60. (MIRA 13:5)  
(Chemistry--Congresses)

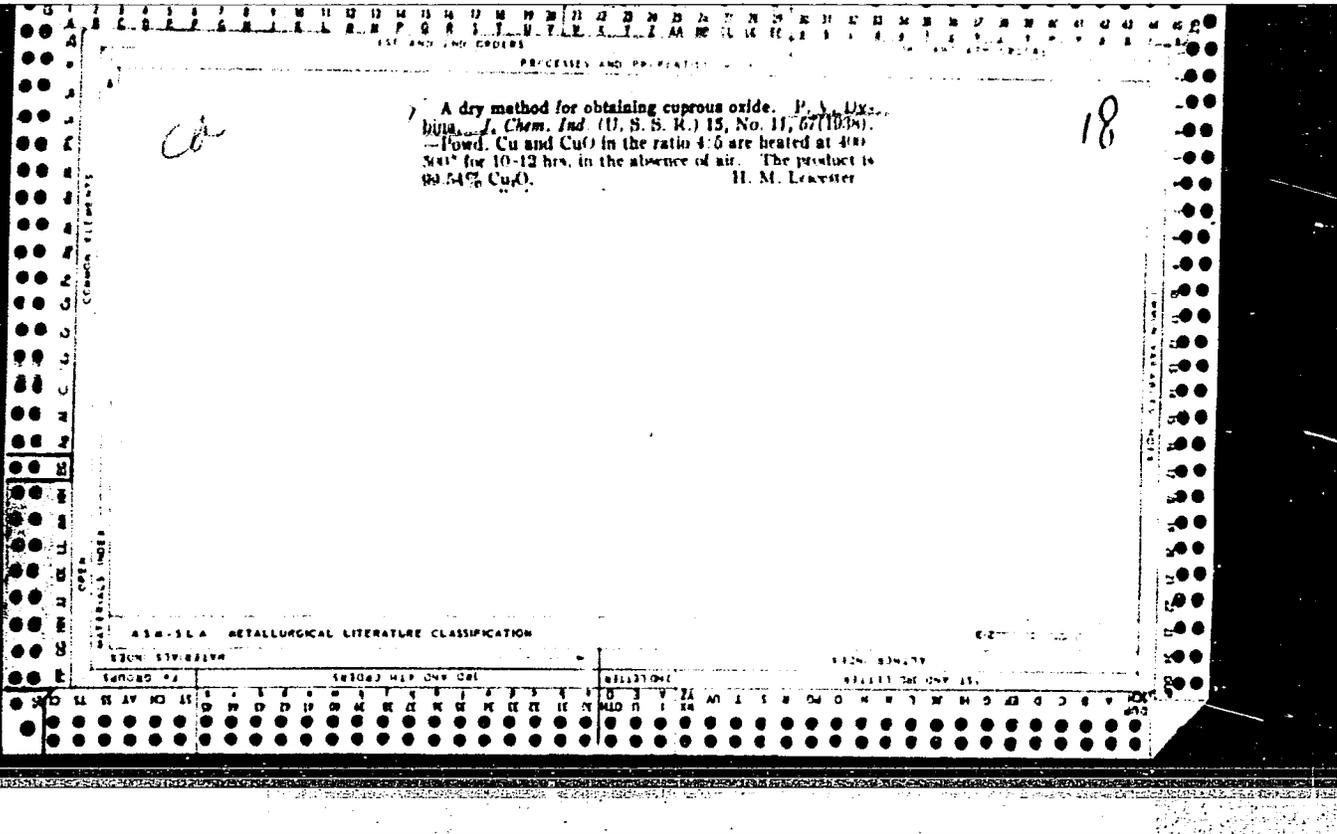
DYBINA, P., prof., doktor tekhn.nauk

Strengthen the relationship between science and industry. NTO  
4 no.10:34-35 0 '62. (MIRA 15:9)

1. Chlen prezidiuma Moskovskogo gorodskogo soveta Nauchno-tekhni-  
cheskikh obshchestv.

(Research, Industrial)





*[Handwritten initials]*

Obtaining copper sulfate from slag. P. V. Dybina.  
*J. Chem. Ind. (U. S. S. R.)* 15, No. 12, 42(1938).--The pyrites slag heap is sprayed with H<sub>2</sub>O and the weak CuSO<sub>4</sub> soln. which filters through is treated with Fe to ppt. Cu. The Cu is heated at 400-50° and dissolved in H<sub>2</sub>SO<sub>4</sub>. The soln. is concd. to get crystals of CuSO<sub>4</sub>. H. M. L.

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

Material	Process	Product	Other
A	B	C	D
E	F	G	H
I	J	K	L
M	N	O	P
Q	R	S	T
U	V	W	X
Y	Z	AA	AB
AC	AD	AE	AF
AG	AH	AI	AJ
AK	AL	AM	AN
AO	AP	AQ	AR
AS	AT	AU	AV
AW	AX	AY	AZ
BA	BB	BC	BD
BE	BF	BG	BH
BI	BJ	BK	BL
BM	BN	BO	BP
BQ	BR	BS	BT
BU	BV	BW	BX
BY	BZ	CA	CB
CC	CD	CE	CF
CG	CH	CI	CJ
CK	CL	CM	CN
CO	CP	CQ	CR
CS	CT	CU	CV
AW	AX	AY	AZ
BA	BB	BC	BD
BE	BF	BG	BH
BI	BJ	BK	BL
BM	BN	BO	BP
BQ	BR	BS	BT
BU	BV	BW	BX
BY	BZ	CA	CB
CC	CD	CE	CF
CG	CH	CI	CJ
CK	CL	CM	CN
CO	CP	CQ	CR
CS	CT	CU	CV

PROCESSES AND PROPERTIES INDEX

25

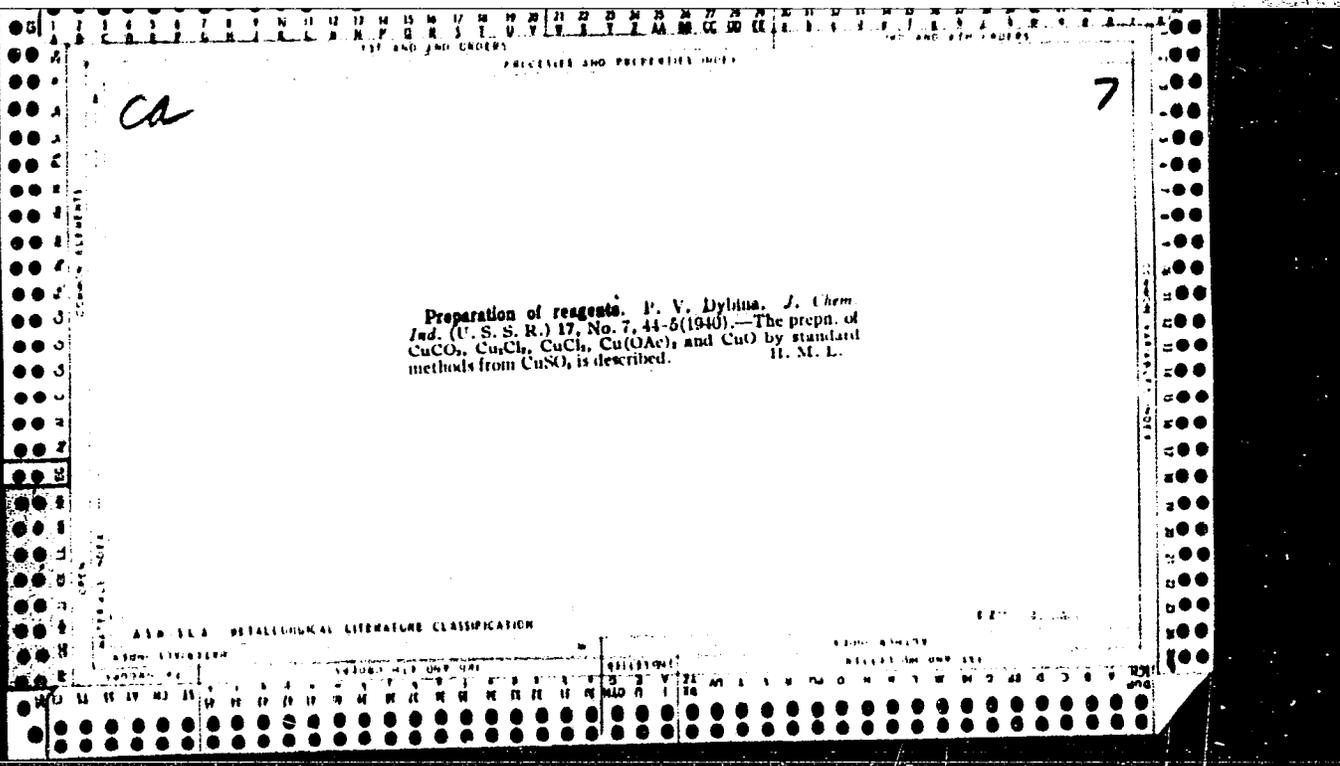
Obtaining sodium thiosulfate from the waste products  
of sulfon dyes. P. V. Dybina. J. Chem. Ind. (U. S. S. R.), 17, No. 5, 58-0 (1940).—The filtrate from the dyes  
is purified with activated C and evapd. to crystn. The  
final product contains 86.84% Na<sub>2</sub>S<sub>2</sub>O<sub>4</sub>. H. M. I.

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

ALPHABETIC	CROSS REFERENCE	ALPHABETIC	CROSS REFERENCE
S	A	S	A
R	Z	R	Z
Q	Y	Q	Y
P	X	P	X
O	W	O	W
N	V	N	V
M	U	M	U
L	T	L	T
K	S	K	S
J	R	J	R
I	Q	I	Q
H	P	H	P
G	O	G	O
F	N	F	N
E	M	E	M
D	L	D	L
C	K	C	K
B	J	B	J
A	I	A	I

Common elements

Common variables



180 AND 17M ORDER

PROCESSES AND PROPERTIES INDEX

F

76. COAGULENT FROM MOSCOW COAL FOR WATER PURIFICATION.  
 Dybina, P.V. (Khim. Prom., 1944, No.8, 16-17) The ash from  
 generating stations in Moscow was mixed with an excess of  $H_2SO_4$ ,  
 and heated for varying periods, and  $Al_2O_3$  and  $Al_2O_3 \cdot Fe_2O_3$   
 were determined in the products. The ash from some of the stations  
 was suitable for the production of a coagulant, while from others  
 it was not suitable. C.A.

COMMON VARIANTS INDEX

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

REGIONAL INDEX

181 AND 17M ORDER

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	181 AND 17M ORDER		
																			1	2	

(1) AND THE SUBJECT

PROCESSED AND PROTECTED

2

0A

The role of Moscow Mendeleev Chemical and Technological Institute (MChTI (m. D. I. Mendeleeva) in the development of the chemical industry. P. V. Lytkin. *Khimicheskaya Prom.* 1945, No. 11, 18-19. A review on the occasion of the 25th anniversary of the founding of the Institute. M. H.

ASB-5LA METALLURGICAL LITERATURE CLASSIFICATION

FROM SOURCE

1	2	3	4	5	6	7	8	9	0	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
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DYBINA P. V.

PK OCT32

USSR/Copper Sulfate  
Smelting

Mar 1947

"Obtaining Copper Sulfate from Wastes of the Copper Smelting Industry," P. V. Dybina, 2 pp

"Khimi Promysh" No 3, pp 17-18.

With agitation extraction of sulfuric acid by Model No 3 under the indicated conditions, not more than 50 to 53% of the copper passes into solution. As the liquid stage increases (Solid:Liquid = 1:6 and above), the rise in concentration does not indicate much effect on the percentage of extraction. The extraction process by agitation is best carried on at 80 to 85°.

10F32

USSR .

Hydrolysis of aluminum sulfate solutions. P. V. Ilyin.  
 Dokl. Akad. Nauk SSSR, 1954, No. 11, 1100.  
 — Hydrolysis of  $Al_2(SO_4)_3$  was studied with the view of using it for the sepn. of Al salts from solns. obtained in the acid hydrolysis of kaolins and clays. Studied were the effects on 200-300° at elevated pressure, duration of heating, and addn. of  $Na_2SO_4$  in quantities of 2-100 g./l. The results are presented graphically. Without addn. of  $Na_2SO_4$  the hydrolysis was unsatisfactory and did not exceed 60%. Addn. of 16 g./l.  $Na_2SO_4$  considerably increased the extent of hydrolysis and at 250° the hydrolysis in a 0.5M  $Al_2(SO_4)_3$  was 82%. Judged by the compn. of salts, hydrolysis at 200° proceeded according to  $Al_2(SO_4)_3 + 2H_2O = 2Al(OH)SO_4 + H_2SO_4$ ; at 250 and 300°  $2Al(OH)SO_4 + 2H_2O = Al_2(OH)_2SO_4 + H_2SO_4$ . The basic Al sulfate thus obtained does not undergo further hydrolysis. The drawback of this method is that the  $Na_2SO_4$  used leaves a residue of 3%  $Na_2O$  in the basic Al sulfate.  
 M. Hosh

3

*[Handwritten signature]*

DYBINA, P. V.

"Physicochemical Properties of Kaolins and Clays," Sb. Statey Vses. zaach. politekhn. in-ta, No 6, 49-60, 1954

The author, writing in a symposium of articles of the All-Union Correspondence Polytechnical Institute, gives a brief survey of investigations conducted by Soviet scientists on the composition of kaolins, their properties and genesis, and the nature of the dehydration of kaolins and clays (the latter subject possesses important practical significance). The reactive capacity of kaolin increases with the removal of moisture.

RZhGeol, No 1, 1955

DYBINA, P.V.

Thermal stability of aluminum sulfites. Izv. vys. ucheb.  
zav; khim. i khim.tekh. 3 no. 5:902-907 '60. (MIRA 13:12)

1. Vsesoyuznyy zaochnyy politekhnicheskyy institut. Kafedra  
tekhologii neorganicheskikh veshchestv i obshchey khimicheskoy  
tekhologii.

(Aluminum sulfite--Thermal properties)

DYBINA, P.V.

Removal of iron from hydrochloric acid solutions by extraction. Zhur.  
prikl.khim. 33 no.10:2184-2189 0 '60. (MIRA 14:5)  
(Iron)

DYBINA, P.V.; VISHNYAK, Yu.I.

Complex utilization of Transcaucasian krasnozem (terra rossa).  
Izv.vys.ucheb.zav.; khim.i khim.tekh. 4 no.6:1042-1044 '61.  
(MIRA 15:3)

1. Vsesoyuznyy zaochnyy politekhnicheskoy institut, kafedra  
tekhnologii neorganicheskikh veshchestv.  
(Aluminosilicates)

DYBINA, P.V.

Decomposition of kaolins by sulfur dioxide under conditions of a  
continuous process. Zhur.prikl.khim. 35 no.2:443-447 F '62.  
(MIRA 15:2)

(Kaolin) (Sulfur dioxide)

DYBININ, V.P.

Scientific conference on high-temperature resistance. *Prykl.mekh.*  
7 no.2:228-229 '61. (MIRA 14:4)  
(Heat resistant alloys) (Refractory materials)

EXCERPTA MEDICA Sec 17 Vol 5/6 Public Health June 59

1811. RELATION BETWEEN ANTI-MICROBIAL ACTIVITY AND ACIDITY OF SOUR MILK PRODUCTS (Russian text) - Dybinskiy R. A. Moscow - VOPR. PIT. 1958, 17/2 (68-73) Illus. 5

The variation of the anti-microbial activity of various sour-milk products does not run parallel with the variation of their acidity, and is a consequence of the capacity of one or other strain to produce antibiotic substances. Unlike lactic acid, the antibiotic substances are unstable and can be broken down under certain conditions. Consequently, fresh-made sour-milk products will possess greatest antibiotic activity. Sour-milk products have the greatest quantity of antibiotic substances when the culture is in the beginning of the log phase and metabolism of cells proceeds unimpeded. Inasmuch as the antibiotic activity of sour-milk cultures is an individual characteristic for the various strains and is subject to considerable variation, when selecting cultures for production it is necessary to make an evaluation of any given strain. A sour-milk product of enhanced antibiotic activity is obtained by placing in the milk before fermenting it with lactic acid cultures, carbohydrates (lactose or saccharose) in quantity up to 10%. While the acidity of such a product is somewhat reduced, its taste and aroma are more full-bodied.

Burakovskii - Moscow (S)

NARKIEWICZ, Mirosława; JUNGOWSKA, Anna; DYBISKI, Jerzy; BARTOSZEWICZ,  
Duteusy

Treatment of non-specific bronchial stenosis. Pol. przegl  
chir. 36 no.7:925-931 Je '64.

1. Z II Kliniki Chirurgicznej Akademii Medycznej w Gdansk  
(Kierownik: prof. dr K. Debicki) z Kliniki Radiologii i  
Radioterapii Akademii Medycznej w Gdansk (Kierownik: prof.  
dr W. Grabowski).

DYBIZBANSKI, B.

DYBIZBANSKI, B. Some remarks concerning the Goczalkowice aqueduct. p. 400  
Vol. 16, no. 9, Sept. 1956. GOSPODARKA I CDNA. Warszawa, Poland.

SOURCE: East European Accessions List (EEAL), Vol. 6, no. 4--April 1957

BYBIZDANSKI, B.

TECHNOLOGY

PERIODICAL: GOSPODARNA WODNA. Vol. 18, no. 6, June 1958

BYBIZDANSKI, B. Assembly of the reinforced-concrete pipeline in Geczalkowice. p. 265.

Monthly List of East European Accessions (MEAI) LC Vol. 8, no. 4.

April, 1959, Unclass